ENDOCRINOLOGY INDEX

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EXPLANATION OF FORMAT

The period covered by this issue of the bibliography corresponds to the same months of *Index Medicus*. The journal coverage is limited to journals covered by *Index Medicus*, but the *Endocrinology Index* contains additional subject headings that are not included in *Index Medicus*. The *Endocrinology Index* is arranged in seven sections: 1) Table of Contents; 2) Subject Section; 3) Review Section; 4) Method Section; 5) Author Section; 6) Subject Index; and 7) Author Index.

Subject Section

The Subject Section is for the reader interested in recent literature related to certain broad topics and is divided into eight categories (pituitary, thyroid, etc.). The endocrine pancreas has not been included since it is the subject of another recurring bibliography, *Diabetes Literature Index*. Each category has a preconceived hierarchical organization of subject headings. A particular citation may appear more than once if it deals with multiple topics. Each citation to an article contains the full title, first author, and journal reference. If the article is written in a foreign language, the language is indicated. If the citation is to a review article, the number of references is given.

Author Section

The Author Section provides the reader with a list of keywords or index terms assigned to each citation. Each article appears only once. The citations are arranged alphabetically according to first author and are numbered consecutively. These numbers are then used in the Author and Subject Indexes to enable the reader to identify references with ease. The complete citations (including index terms) are found but only the first three authors are listed. Foreign titles appear in the original language; these titles have been translated into English in the Subject Section. Following each citation are index terms which have been assigned to describe the contents of the article. Index terms appear in capital letters; some of these are accompanied by subheadings which appear in lower case letters. Asterisks (*) identify the index terms under which articles appear in *Index Medicus*.

Subject Index

All of the index terms assigned to the citations appearing in the bibliography are listed, followed by citation numbers which correspond to the numbers in the Author Section. The Subject Index is included for the convenience of the reader who wishes to select articles falling in categories of his own conception. For example, one who is interested in protein binding of a particular hormone could quickly find whether there were any articles dealing with this subject by determining if there were any citation numbers common to the two headings "protein binding" and the name of the specific hormone.

Author Index

The names of all authors are listed, followed by citation numbers which correspond to the numbers in the Author Section.

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ENDOCRINOLOGY INDEX

National Institute of Arthritis, Metabolism, and Digestive Diseases

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PREFACE

The *Endocrinology Index* is a bimonthly publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases. This selected bibliography which is produced from the National Library of Medicine's Medical Literature Analysis and Retrieval System (MEDLARS), has been initiated to supply those scientists working in the field of endocrinology with a much needed current awareness tool and is intended to help facilitate greater integration of research and clinical efforts in this field.

Endocrinology Index was developed with the support of contract PH43-66-480 in 1966-70 to Vanderbilt University under the direction of Grant W. Liddle. The National Institute of Arthritis, Metabolism, and Digestive Diseases is most appreciative of the fine work in originally developing and editing the *Index* provided by Grant W. Liddle and Victoria Ragin Liddle and for their continuing editorial advice in making the *Endocrinology Index* a most important and necessary component of endocrinology literature within the biomedical research community.

The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1981

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III. Pituitary Hormones, Precursors, Metabolites and Synthetic Analogs

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II. Disorders of the Thyroid Gland

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III. *Thyroid Hormones, Precursors, Metabolites and Synthetic Analogs*

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THYROID

IV. Thyroid Antagonists and Inhibitors

CARBIMAZOLE

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II. Disorders of the Adrenal Glands

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ADRENAL CORTEX NEOPLASMS

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Low-renin ('primary') hyperaldosteronism. Differential diagnosis and distinction of sub-groups within the syndrome. Ferriss JB, et al. **Am Heart J** 95(5):641–58, May 78 (190 ref.)

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ANDROSTERONE

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ADMINISTRATION & DOSAGE

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BECLOMETHASONE

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BETAMETHASONE 17-VALERATE

ADMINISTRATION & DOSAGE

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CORTICOSTERONE

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11-HYDROXYCORTICOSTEROIDS

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17-HYDROXYCORTICOSTEROIDS

BLOOD

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18-HYDROXYCORTICOSTERONE

Less polar forms and derivatives of 18 hydroxy-corticosterone. Aragones A, et al. **J Steroid Biochem** 9(2):175-80, Feb 78

HYDROXYPREGNENOLONE

BIOSYNTHESIS

[In-vitro studies on the effect of D-norgestrel and norethisterone acetate on the formation of sex steroids in the human ovary] Schürenkämper P, et al. **Endokrinologie** 71(1):25-34, Feb 78 (Eng. Abstr.) **(Ger)**

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Substrate specificity for androgen biosynthesis in the primate testis. Preslock JP, et al. **J Steroid Biochem** 9(2):163-7, Feb 78

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URINE

Multi-column chromatography of urinary steriods and adrenocortical dysfunction. Sayegh JF, et al. **Acta Endocrinol [Suppl] (Kbh)** 88(217):207-14, 1978

17-KETOSTEROIDS

BLOOD

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Antiarrhythmic, metabolic and hemodynamic effects of Org 6001 (3alpha-amino-5alpha-androstan-2beta-ol-17-one-hydroc after coronary flow reduction in pigs. Verdouw PD, et al. **J Pharmacol Exp Ther** 204(3):634-44, Mar 78

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Inhibition by melatonin of the pituitary response to luteinizing hormone releasing hormone in vivo. Yamashita K, et al. **J Endocrinol** 76(3):487-91, Mar 78

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Multi-column chromatography of urinary 17-ox osteroids as their 2,4-dinitrophenylhdrazones. Sayegh JF, et al. **Acta Endocrinol [Suppl] (Kbh)** 88(217):222-8, 1978

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The treatment of mild adrenal hyperplasia and associated infertility with prednisone. Sarris S, et al. **Br J Obstet Gynaecol** 85(4):251-3, Apr 78

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METHYLPREDNISOLONE

ADMINISTRATION & DOSAGE

Effect of therapy with methylprednisolone on the size of myocardial infarcts in man. Peters RW, et al. **Chest** 73(4):483-8, Apr 78

PHARMACODYNAMICS

The importance of adrenocortical steroids in the pathogenesis of ketosis in diabetic guinea pigs (Caviae porcellus) Johnson FM Jr. **Cornell Vet** 68(2):150-60, Apr 78

Effect of corticosteroids on the response of lymphocytes to stimulation by galactose oxidase-modified lymphocytes. Yu DT, et al. **Immunology** 33(2):247-52, Aug 77

Long-term preservation of ischemic myocardium after experimental coronary artery occlusion. Maclean D, et al. **J Clin Invest** 61(3):541-51, Mar 78

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MINERALOCORTICOIDS

BIOSYNTHESIS

Dexamethasone-responsive hypertension in young women with suppressed renin and aldosterone. Hoefnagels WH, et al. **Lancet** 1(8067):741–3, 8 Apr 78

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[A feminizing adrenal cortex adenoma with Cushing's syndrome which can be stimulated with HCG] Breustedt HJ, et al. **Verh Dtsch Ges Inn Med** 83:1340–3, 17–21 Apr 77 **(Ger)**

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Low-renin ('primary') hyperaldosteronism. Differential diagnosis and distinction of sub-groups within the syndrome. Ferriss JB, et al. **Am Heart J** 95(5):641–58, May 78 (190 ref.)

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Separation of multisized drug suspensions into narrow distributions by centrifugal elutriation. Howard SA, et al. **J Pharm Sci** 67(5):673–5, May 78

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[Study on suppression of the pituitary-adrenocortical function by the therapeutic use of corticosteroids and its spontaneous recovery (author's transl)] Mori M.
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[The effect of steroid's preparations, doses and administration methods on the suppression of adrenocortical functions during corticosteroid therapy in chronic diseases (author's transl)] Morimoto Y, et al. **Nippon Naika Gakkai Zasshi** 67(1):57–68, Jan 78 **(Jpn)**

ADVERSE EFFECTS

[Action of corticosteriod hormones on the pepsin-forming function of the stomach in viral hepatitis] Vylegzhanina TK. **Klin Med (Mosk)** 56(2):43–7, Feb 78 (Eng. Abstr.) **(Rus)**

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Use of corticosteroids in complex treatment of generalized forms of meningococcal infection] Vashchenko MA, et al. **Vrach Delo** (2):135–8, Feb 78 **(Rus)**

PREDNISONE

ADVERSE EFFECTS

Aseptic necrosis of bone in systemic lupus erythematosus. Relationship to corticosteroid therapy. Abeles M, et al. **Arch Intern Med** 138(5):750–4, May 78

THERAPEUTIC USE

Childhood pemphigus treated with gold. Paltzik RL, et al. **Arch Dermatol** 114(5):768–9, May 78

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IV. Related Topics

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V. *Adrenal Medulla*

ADRENAL MEDULLA

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II. Disorders of the Gonads

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COMPLICATIONS

Fourteen year old girl with hirsutism of one year's duration. Oakland JA, et al. **SD J Med** 31(3):25–31, Mar 78

DIAGNOSIS

Fourteen year old girl with hirsutism of one year's duration. Oakland JA, et al. **SD J Med** 31(3):25–31, Mar 78

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PATHOLOGY

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Undescended testis—an approach to its diagnosis and management. Fitzgerald R, et al. **Ir Med J** 71(3):89–91, 28 Feb 78

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BLOOD

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Luteinising hormone-releasing hormone nasal spray as therapy for undescended testicle. Pirazzoli P, et al. **Arch Dis Child** 53(3):235–8, Mar 78

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EMBRYOLOGY

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FAMILIAL & GENETIC

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Primary intracranial HCG-producing germinoma in a boy with congenital adrenal hyperplasia. Levine LS, et al. **Acta Endocrinol (Kbh)** 88(1):122–31, May 78
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STEIN–LEVENTHAL SYNDROME

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III. *Gonadal Hormones, Precursors, Metabolites and Synthetic Analogs*

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NANDROLONE

ADMINISTRATION & DOSAGE

Serum concentrations of mibolerone in Beagle bitches as influenced by time, dosage form, and geographic location. Krzeminski LF, et al. **Am J Vet Res** 39(4):567–72, Apr 78

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NORETHANDROLONE

ANALYSIS

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PLACENTA

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Worldwide controversies in gestational trophoblastic neoplasms. Goldstein DP. **Int J Gynaecol Obstet** 15(3):207–15, 1977

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*PLACENTA, ABNORMALITIES AND INJURIES. See Page 183

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II. Disorders of the Parathyroid Glands

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PARATHYROID AND BONE

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NEUROENDOCRINOLOGY

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II. Disorders of the Amygdaloid Body

AMYGDALOID BODY

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*HYPOTHALAMUS, ANTERIOR, ABNORMALITIES AND INJURIES. See Page 234

NEUROENDOCRINOLOGY

III. Neuroendocrine System Hormones, Precursors, Metabolites and Synthetic Analogs

CORTICOTROPIN RELEASING HORMONE

The status of the corticotropin releasing factor (CRF). Saffran M, et al. **Neuroendocrinology** 24(5–6):359–75, 1977 (40 ref.)

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MSH RELEASE INHIBITING HORMONE

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PITUITARY HORMONE RELEASE INHIBITING HORMONES

METABOLISM

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SOMATOTROPIN RELEASING HORMONE

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PITUITARY HORMONES, ANTERIOR

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PUBERTY, PRECOCIOUS

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REVIEW SECTION

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METHOD SECTION

AUTOANALYSIS

The multicuvette general analytical system for combined multi-column chromatography and high capacity single substance and group analyses and its application to steroid analyses. Vestergaard P. **Acta Endocrinol [Suppl] (Kbh)** 88(217):229–45, 1978
AUTOANALYSIS/ CHROMATOGRAPHY, GAS/ *CHROMATOGRAPHY, LIQUID, methods/ CHROMATOGRAPHY, PAPER/ COMPARATIVE STUDY/ COMPUTERS/ HUMAN/ *STEROIDS, analysis

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AUTOANALYSIS/ *ESTROGENS, urine/ EVALUATION STUDIES/ HUMAN/ METHODS/ SPECTROMETRY, FLUORESCENCE

METHODS

Rapid semiautomated method for the differential determination of urinary catecholamines. Wainwright RS. **Ann Clin Biochem** 15(2):93–101, Mar 78
AUTOANALYSIS, methods/ CATECHOLAMINES, urine/ CHROMATOGRAPHY/ *EPINEPHRINE, urine/ FLUOROMETRY/ HUMAN/ INDOLES/ *NOREPINEPHRINE, urine/ NORMAL VALUES/ SEMICARBAZIDES

CHROMATOGRAPHY

Rapid semiautomated method for the differential determination of urinary catecholamines. Wainwright RS. **Ann Clin Biochem** 15(2):93–101, Mar 78
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[Determination of free, bioavailable plasma steroid hormones; clinical application] Bartmann E, et al. **Verh Dtsch Ges Inn Med** 83:1346–9, 17–21 Apr 77 **(Ger)**
ADULT/ CHROMATOGRAPHY, methods/ COMPARATIVE STUDY/ FEMALE/ *HORMONES, blood/ HUMAN/ HYDROCORTISONE, blood/ MALE/ METHODS/ ULTRACENTRIFUGATION

CHROMATOGRAPHY, AFFINITY

METHODS

Maximizing the purification of the activated glucocorticoid receptor by DNA-cellulose chromatography. Eisen HJ, et al. **Biochem J** 171(1):177–83, 1 Apr 78
ANIMAL/ CELL NUCLEUS, metabolism/ CELLULOSE/ CHROMATOGRAPHY, AFFINITY, methods/ DNA/ ELECTROPHORESIS, POLYACRYLAMIDE GEL/ HEAT/ IN VITRO/ LIVER, metabolism/ MALE/ PROTEIN BINDING/ RATS/ *RECEPTORS, GLUCOCORTICOID, isolation & purification/ RECEPTORS, GLUCOCORTICOID, metabolism/ *RECEPTORS, STEROID, isolation & purification/ TRIAMCINOLONE, metabolism

CHROMATOGRAPHY, GAS

Estimation of 17-oxosteroids in plasma by multi-column chromatography. Sayegh JF, et al.
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The specificity of multi-column liquid chromatography of neutral urinary steroids as evaluated by comparison with parallel gas chromatography and mass spectrometry. Sayegh JF, et al. **Acta Endocrinol [Suppl] (Kbh)** 88(217):132–47, 1978
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Studies related to the metabolism of anabolic steroids in the horse: a gas chromatographic mass spectrometric method to confirm the administration of 19-nortestosterone or its esters to horses. Houghton E, et al.
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CHROMATOGRAPHY, GAS/ *ESTRANES, urine/ *HORSES, metabolism/ METHODS/ NANDROLONE, analogs & derivatives/ *NANDROLONE, metabolism/ NANDROLONE, urine/ SPECTRUM ANALYSIS, MASS

Analysis of metabolic profiles of prostaglandins in urine using a lipophilic anion exchange. Almé B, et al.
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A simple extraction procedure for prostaglandins in human seminal plasma with specific detection by selected ion monitoring. Tusell JM, et al. **Prostaglandins** 15(2):219–37, Feb 78
CHROMATOGRAPHY, GAS/ HUMAN/ IONS/ MALE/ *PROSTAGLANDINS, isolation & purification/ *SEMEN, analysis/ SPECTRUM ANALYSIS, MASS/ *ULTRAFILTRATION, methods

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Radioimmunoassay for plasma corticosterone. Grose JH, et al. **Clin Biochem** 11(1):32–33, Feb 78
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Free thyroxine in serum as estimated by polyacrylamide gel filtration. McDonald LJ, et al. **Clin Chem** 24(4):652–6, Apr 78
ACRYLAMIDES/ CHROMATOGRAPHY, GEL/ DIALYSIS/ EVALUATION STUDIES/ HUMAN/ METHODS/ *THYROXINE, blood

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Procedure for a normalised thyroxine determination in small sephadex columns. Goedemans WT, et al.
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CHROMATOGRAPHY, GEL, methods/ FEMALE/ HUMAN/ INDICATORS AND REAGENTS/ PREGNANCY/ THYROID DISEASES, blood/ THYROXINE BINDING PROTEIN, metabolism/ *THYROXINE, blood

Radioimmunoassay of plasma androstenedione, testosterone and 11beta-hydroxyandrostenedione after chromatography on Lipidex-5000 (hydroxyalkoxypropyl Sephadex). Goldzieher JW, et al. **J Steroid Biochem** 9(2):169–73, Feb 78
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CHROMATOGRAPHY, ION EXCHANGE

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CHROMATOGRAPHY, LIQUID

The specificity of multi-column liquid chromatography of neutral urinary steroids as evaluated by comparison with parallel gas chromatography and mass spectrometry. Sayegh JF, et al. **Acta Endocrinol [Suppl] (Kbh)** 88(217):132–47, 1978
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INSTRUMENTATION

General methodology for the estimation of common neutral urinary steroids by multi-column liquid chromatography. Vestergaard P, et al. **Acta Endocrinol [Suppl] (Kbh)** 88(217):76–95, 1978
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METHODS

Estimation of 17-oxosteroids in plasma by multi-column chromatography. Sayegh JF, et al.
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ADULT/ CHROMATOGRAPHY, GAS/ *CHROMATOGRAPHY, LIQUID, methods/ FEMALE/ HUMAN/ HYDROLYSIS/ MALE/ MIDDLE AGE/ SOLVENTS/ SPECTRUM ANALYSIS, MASS/ *17-KETOSTEROIDS, blood

General methodology for the estimation of common neutral urinary steroids by multi-columin liquid chromatography. Vestergaard P, et al. **Acta Endocrinol [Suppl] (Kbh)** 88(217):76–95, 1978
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The multicuvette general analytical system for combined multi-column chromatography and high capacity single substance and group analyses and its application to steroid analyses. Vestergaard P. **Acta Endocrinol [Suppl] (Kbh)** 88(217):229–45, 1978
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STANDARDS

Quality control measures in the assay of common urinary steroids as applied to a multi-column chromatographic procedure. Vestergaard P. **Acta Endocrinol [Suppl] (Kbh)** 88(217):148–56, 1978
*CHROMATOGRAPHY, LIQUID, standards/ COMPARATIVE STUDY/ HUMAN/ METHODS/ QUALITY CONTROL/ *STEROIDS, urine

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The multicuvette general analytical system for combined multi-column chromatography and high capacity single substance and group analyses and its application to steroid analyses. Vestergaard P. **Acta Endocrinol [Suppl] (Kbh)** 88(217):229–45, 1978
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Direct radioimmunoassay of plasma aldosterone in normal subjects. Lijnen P, et al. **Clin Chim Acta** 84(3):305–14, 15 Mar 78
ADULT/ AGE FACTORS/ AGED/ *ALDOSTERONE, blood/ CHROMATOGRAPHY, PAPER/ FEMALE/ HUMAN/ MALE/ METHODS/ MIDDLE AGE/ RADIOIMMUNOASSAY/ RENIN, blood/ SODIUM, pharmacodynamics

METHODS

[Chromatoelectrophoresis of hormones labeled with radioisotopes] Jirkalová V, et al.
Sb Ved Pr Lek Fak Univ Karlovy [Suppl] 19(5):657–65, 1976 (Eng. Abstr.) **(Cze)**
*CHROMATOGRAPHY, PAPER, methods/ ENGLISH ABSTRACT/ FEMALE/ FSH, analysis/ GONADOTROPINS, CHORIONIC, analysis/ *GONADOTROPINS, PITUITARY, analysis/ HUMAN/ LH, analysis/ RADIOISOTOPES

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The specificity of multi-column liquid chromatography of neutral urinary steroids as evaluated by comparison with parallel gas chromatography and mass spectrometry. Sayegh JF, et al. **Acta Endocrinol [Suppl] (Kbh)** 88(217):132–47, 1978
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*CHROMATOGRAPHY, LIQUID, standards/ COMPARATIVE STUDY/ HUMAN/ METHODS/ QUALITY CONTROL/ *STEROIDS, urine

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A modification of the Cortipac procedure for the estimation of urine free cortisol. Wiener K, et al.
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ADRENAL CORTEX HORMONES, urine/ COMPARATIVE STUDY/ CUSHING'S SYNDROME, diagnosis/ HUMAN/ *HYDROCORTISONE, urine/ METHODS/ REAGENT KITS, DIAGNOSTIC/ 17-KETOSTEROIDS, urine

The hCG-beta subunit radioimmunoassay in nontrophoblastic gynecologic tumors. Rutanen EM, et al. **Cancer** 41(2):692–6, Feb 78
ADULT/ ANTIBODY SPECIFICITY/ COMPARATIVE STUDY/ CROSS REACTIONS/ FEMALE/ *GONADOTROPINS, CHORIONIC, blood/ GONADOTROPINS, CHORIONIC, immunology/ *GYNECOLOGIC NEOPLASMS, blood/ GYNECOLOGIC NEOPLASMS, therapy/ *HORMONES, ECTOPIC, blood/ HUMAN/ LH, blood/ LH, immunology/ MIDDLE AGE/ RADIOIMMUNOASSAY, methods

Comparison of double- and single-isotope enzymatic derivative methods for measuring catecholamines in human plasma. Evans MI, et al. **Clin Chem** 24(4):567–70, Apr 78
ADULT/ CARBON RADIOISOTOPES, diagnostic use/ *CATECHOLAMINES, blood/ COMPARATIVE STUDY/ DOPAMINE, blood/ EPINEPHRINE, blood/ EVALUATION STUDIES/ HUMAN/ METHODS/ MIDDLE AGE/ NOREPINEPHRINE, blood/ TRITIUM, diagnostic use/ U.S. GOV'T SUPPORTED, N.I.H./ U.S. GOV'T SUPPORTED, NON-N.I.H.

Serum estradiol-17 beta as determined by mass fragmentography and by radioimmunoassay. Zamecnik J, et al. **Clin Chem** 24(4):627–30, Apr 78
COMPARATIVE STUDY/ *ESTRADIOL, blood/ EVALUATION STUDIES/ FEMALE/ HUMAN/ MALE/ MASS FRAGMENTOGRAPHY/ METHODS/ RADIOIMMUNOASSAY

[Comparative study of bone mineral densities in the human skeleton] Eschberger J, et al. **Acta Med Austriaca** 4(4–9):138–40, 1977 (Eng. Abstr.) **(Ger)**
ADOLESCENCE/ ADULT/ AGE FACTORS/ AGED/ *BONE AND BONES, metabolism/ CLIMACTERIC/ COMPARATIVE STUDY/ DENSITOMETRY, methods/ ENGLISH ABSTRACT/ FEMALE/ FEMUR, metabolism/ HUMAN/ HUMERUS, metabolism/ ILIUM, metabolism/ MALE/ MIDDLE AGE/ *MINERALS, metabolism

[Determination of free, bioavailable plasma steroid hormones; clinical application] Bartmann E, et al.
Verh Dtsch Ges Inn Med 83:1346–9, 17–21 Apr 77 **(Ger)**
ADULT/ CHROMATOGRAPHY, methods/ COMPARATIVE STUDY/ FEMALE/ *HORMONES, blood/ HUMAN/ HYDROCORTISONE, blood/ MALE/ METHODS/ ULTRACENTRIFUGATION

[Comparative bone densitometry studies (photon absorption technic) with roentgenologic findings in patients with renal osteopathy] Samizadeh A, et al.
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*BONE AND BONES, radiography/ BONE DISEASES, etiology/ *BONE DISEASES, pathology/ BONE DISEASES, radiography/ COMPARATIVE STUDY/ DENSITOMETRY, methods/ HUMAN/ *ILIUM, pathology/ *KIDNEY FAILURE, CHRONIC, complications

DENSITOMETRY

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Density of goblet cells on normal adult nasal turbinates. Mogensen C, et al. **Anat Anz** 142(4):322–30, 1977
AGE FACTORS/ AGED/ DENSITOMETRY, methods/ *EPITHELIUM, cytology/ FEMALE/ HUMAN/ MALE/ MIDDLE AGE/ NASAL MUCOSA, cytology/ NASAL SEPTUM, cytology/ *TURBINATES, cytology

[Comparative study of bone mineral densities in the human skeleton] Eschberger J, et al. **Acta Med Austriaca** 4(4–9):138–40, 1977 (Eng. Abstr.) **(Ger)**
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[Value of photon-absorption densitometry for the assessment of bone density] Haber P, et al. **Acta Med Austriaca** 4(4–9):140–3, 1977 (Eng. Abstr.) **(Ger)**
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[Estimation of mineral concentration in bone samples by backscattering of beta-rays (author's transl)] Meissner J, et al. **Biomed Tech (Berlin)** 23(3):34–44, Mar 78 (Eng. Abstr.) **(Ger)**
*BONE AND BONES, analysis/ DENSITOMETRY, methods/ ELECTRONS/ ENGLISH ABSTRACT/ HUMAN/ *MINERALS, analysis

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*BONE AND BONES, radiography/ BONE DISEASES, etiology/ *BONE DISEASES, pathology/ BONE DISEASES, radiography/ COMPARATIVE STUDY/ DENSITOMETRY, methods/ HUMAN/ *ILIUM, pathology/ *KIDNEY FAILURE, CHRONIC, complications

DIAGNOSIS, DIFFERENTIAL

The free triiodothyronine (T3) index. Sawin CT, et al.
Ann Intern Med 88(4):474–7, Apr 78
ADULT/ AGED/ CONTRACEPTIVES, ORAL, SYNTHETIC, pharmacodynamics/ DIAGNOSIS, DIFFERENTIAL/ FEMALE/ HUMAN/ HYPERTHYROIDISM, blood/ HYPERTHYROIDISM, diagnosis/ HYPOTHYROIDISM, blood/ HYPOTHYROIDISM, diagnosis/ MALE/ METHODS/ MIDDLE AGE/ PREGNANCY/ THYROXINE, blood/ THYROXINE, physiology/ *TRIIODOTHYRONINE, blood/ TRIIODOTHYRONINE, physiology/ U.S. GOV'T SUPPORTED, N.I.H./ U.S. GOV'T SUPPORTED, NON-N.I.H.

METHOD SECTION

DIALYSIS

Free thyroxine in serum as estimated by polyacrylamide gel filtration. McDonald LJ, et al. **Clin Chem** 24(4):652–6, Apr 78
ACRYLAMIDES/ CHROMATOGRAPHY, GEL/ DIALYSIS/ EVALUATION STUDIES/ HUMAN/ METHODS/ *THYROXINE, blood

METHODS

A dialysis rate method for the measurement of free iodothyronine and steroid hormones in blood. Ross HA. **Experientia** 34(4):538–9, 15 Apr 78
*ALDOSTERONE, blood/ DIALYSIS, methods/ FEMALE/ HUMAN/ *HYDROCORTISONE, blood/ MALE/ PREGNANCY/ *THYROXINE, blood/ *TRIIODOTHYRONINE, blood

ELECTROPHORESIS, POLYACRYLAMIDE GEL

Maximizing the purification of the activated glucocorticoid receptor by DNA–cellulose chromatography. Eisen HJ, et al. **Biochem J** 171(1):177–83, 1 Apr 78
ANIMAL/ CELL NUCLEUS, metabolism/ CELLULOSE/ CHROMATOGRAPHY, AFFINITY, methods/ DNA/ ELECTROPHORESIS, POLYACRYLAMIDE GEL/ HEAT/ IN VITRO/ LIVER, metabolism/ MALE/ PROTEIN BINDING/ RATS/ *RECEPTORS, GLUCOCORTICOID, isolation & purification/ RECEPTORS, GLUCOCORTICOID, metabolism/ *RECEPTORS, STEROID, isolation & purification/ TRIAMCINOLONE, metabolism

METHODS

Separation of relaxin activities in extracts of ovaries of pregnant sows by polyacrylamide gel electrophoresis. Oliver RM, et al. **J Endocrinol** 76(3):517–25, Mar 78
ANIMAL/ ELECTROPHORESIS, POLYACRYLAMIDE GEL, methods/ FEMALE/ *OVARY, analysis/ PREGNANCY/ *PREGNANCY, ANIMAL/ RELAXIN, analysis/ *RELAXIN, isolation & purification/ *SWINE, metabolism/ TIME FACTORS/ U.S. GOV'T SUPPORTED, N.I.H.

FLUOROMETRY

Rapid semiautomated method for the differential determination of urinary catecholamines. Wainwright RS. **Ann Clin Biochem** 15(2):93–101, Mar 78
AUTOANALYSIS, methods/ CATECHOLAMINES, urine/ CHROMATOGRAPHY/ *EPINEPHRINE, urine/ FLUOROMETRY/ HUMAN/ INDOLES/ *NOREPINEPHRINE, urine/ NORMAL VALUES/ SEMICARBAZIDES

INSTRUMENTATION

Simultaneous quantitation of catecholamines and metabolites in urine. de Schaepdryver AF, et al. **Clin Chim Acta** 84(3):321–8, 15 Mar 78
ADULT/ *CATECHOLAMINES, urine/ FEMALE/ FLUOROMETRY, instrumentation/ HOMOVANILLIC ACID, urine/ HUMAN/ MALE/ METANEPHRINE, urine/ METHODS/ MIDDLE AGE/ NORMAL VALUES/ NORMETANEPHRINE, urine/ VANILMANDELIC ACID, urine

MASS FRAGMENTOGRAPHY

Serum estradiol–17 beta as determined by mass fragmentography and by radioimmunoassay. Zamecnik J, et al. **Clin Chem** 24(4):627–30, Apr 78
COMPARATIVE STUDY/ *ESTRADIOL, blood/ EVALUATION STUDIES/ FEMALE/ HUMAN/ MALE/ MASS FRAGMENTOGRAPHY/ METHODS/ RADIOIMMUNOASSAY

POLAROGRAPHY

METHODS

Determination of fluoxymesterone, norethandrolone, prednisolone, and prednisone in tablets by differential pulse polarography. Yadav RN, et al. **J Pharm Sci** 67(3):436–8, Mar 78
*FLUOXYMESTERONE, analysis/ *NORETHANDROLONE, analysis/ POLAROGRAPHY, methods/ *PREDNISOLONE, analysis/ *PREDNISONE, analysis/ TABLETS, analysis

PROTEIN BINDING

Maximizing the purification of the activated glucocorticoid receptor by DNA–cellulose chromatography. Eisen HJ, et al. **Biochem J** 171(1):177–83, 1 Apr 78
ANIMAL/ CELL NUCLEUS, metabolism/ CELLULOSE/ CHROMATOGRAPHY, AFFINITY, methods/ DNA/ ELECTROPHORESIS, POLYACRYLAMIDE GEL/ HEAT/ IN VITRO/ LIVER, metabolism/ MALE/ PROTEIN BINDING/ RATS/ *RECEPTORS, GLUCOCORTICOID, isolation & purification/ RECEPTORS, GLUCOCORTICOID, metabolism/ *RECEPTORS, STEROID, isolation & purification/ TRIAMCINOLONE, metabolism

Radioimmunoassay for plasma corticosterone. Grose JH, et al. **Clin Biochem** 11(1):32–33, Feb 78
ADULT/ ANTIBODIES/ CHROMATOGRAPHY, GEL/ *CORTICOSTERONE, blood/ HUMAN/ PROTEIN BINDING/ RADIOIMMUNOASSAY, methods/ TRANSCORTIN

Immune and non–immune T4 radioassays utilizing albumin magnetic microparticles. Ithakissios DS, et al. **Clin Chim Acta** 84(1–2):69–84, 1 Mar 78
BLOOD PROTEINS, metabolism/ HUMAN/ IODINE RADIOISOTOPES, diagnostic use/ MAGNETICS/ MICROSPHERES/ NORMAL VALUES/ PROTEIN BINDING/ PROTEIN DENATURATION/ RADIOIMMUNOASSAY, methods/ RADIOLIGAND ASSAY, methods/ SERUM ALBUMIN, metabolism/ *SERUM ALBUMIN, BOVINE, diagnostic use/ *THYROXINE, blood

RADIOIMMUNOASSAY

Serum estradiol–17 beta as determined by mass fragmentography and by radioimmunoassay. Zamecnik J, et al. **Clin Chem** 24(4):627–30, Apr 78
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Direct radioimmunoassay of plasma aldosterone in normal subjects. Lijnen P, et al. **Clin Chim Acta** 84(3):305–14, 15 Mar 78
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Special problems in the radioimmunoassay of plasma aldosterone without prior extraction and purification. Pratt JJ, et al. **Clin Chim Acta** 84(3):329–37, 15 Mar 78
ADSORPTION/ *ALDOSTERONE, blood/ ALDOSTERONE, isolation & purification/ CHARCOAL/ CROSS REACTIONS/ HUMAN/ METHODS/ RABBITS, immunology/ RADIOIMMUNOASSAY/ RENIN, blood/ TIME FACTORS/ TRANSCORTIN

Radioimmunoassay of plasma androstenedione, testosterone and 11beta–hydroxyandrostenedione after chromatography on Lipidex–5000 (hydroxyalkoxypropyl Sephadex). Goldzieher JW, et al. **J Steroid Biochem** 9(2):169–73, Feb 78
ADRENAL GLAND HYPOFUNCTION, blood/ ALCOHOLS/ *ANDROSTENEDIONE, analogs & derivatives/ *ANDROSTENEDIONE, blood/ CASTRATION/ CHROMATOGRAPHY, GEL,

methods/ DEXTRAN, analogs & derivatives/ FEMALE/ HUMAN/ MALE/ RADIOIMMUNOASSAY/ *TESTOSTERONE, blood/ U.S. GOV'T SUPPORTED, NON-N.I.H.

Radioimmunoassay technique for detecting urinary excretion products after administration of synthetic anabolic steroids to the horse. Jondorf WR, et al. **Xenobiotica** 8(4):197–206, Apr 78
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